

**CLAIMS**

1. A method for regulating food intake by administering a compound to a subject, wherein the compound affects the activity of AMPK.
2. The method of claim 1, wherein the AMPK is hypothalamic AMPK.
- 5 3. The method of claim 1, wherein the compound is not C75.
4. The method of claim 1, wherein the compound is C75.
5. The method of claim 1, wherein the compound inhibits AMPK.
6. The method of claim 1, wherein the compound stimulates AMPK.
7. The method of claim 1, wherein the subject is a human.
- 10 8. The method of claim 1, wherein the subject is a mammal but is not a human.
9. A method of altering food intake in a subject by administering a compound to the subject which changes the subject's neuronal energy balance.
10. The method of claim 9, wherein the compound decreases the subject's neuronal energy balance.
- 15 11. The method of claim 9, wherein the compound increases the subject's neuronal energy balance.
12. The method of claim 9, wherein the subject is a human.
13. The method of claim 9, wherein the subject is a mammal but is not a human.

14. The method of claim 9, wherein the compound is not C75.